TRIP REPORT

DATE: May 1, 2014
LOCATION: TERRY JONES PROPERTY, EMMETT IDAHO

On April 21, 2014, Hilary Collinsworth received a call from Terry Jones Sr. on the morning of April 21, 2014 to come inspect and approve his new waste water berming and construction. Mr. Jones communicated that he needed this approval done today (April 21, 2014) so he could begin irrigating his crops.

Ms. Collinsworth and John Bilderback went to Jones' property to do an inspection. After talking with Mr. Jones, it became apparent that this new berming that was constructed was not going to be part of the dairy waste system. (Note: The contractor used was Shippy).

Mr. Jones wanted an approval to allow him to turn on irrigation water. Mr. Bilderback explained to Mr. Jones that ISDA does not have the statutory authority to approve processes, machinery, piping, structures, etc. that are not directly related to the dairy farm or dairy waste system. Because this berm is a third party structure, Mr. Bilderback was unable to approve it under ISDA's regulatory jurisdiction. That said, the structure in its current state would not meet the requirements according to IDAPA 02.04.14 Rules Governing Dairy Waste ("Dairy Waste Rules"). Mr. Bilderback did state to Mr. Jones that as far as he was aware he could begin his irrigation.

However due to the proximity of the structure to the dairy waste system, Ms. Collinsworth and Mr. Bilderback went ahead with an inspection to outline the steps needed if the structure would ever be used as an approved dairy waste containment area.

Mr. Bilderback used an approximately 3' soil penetrometer to test the berm and the floor of the containment area. It was found the compaction to be inadequate to meet the requirements of the Dairy Waste Rules. To have this area approved for dairy waste containment, the compaction and soil would have to meet the requirements. Mr. Bilderback did not take soil samples since the compaction of the facility was not met and at this time, Mr. Jones stated he has no intention of containing dairy waste in this area.

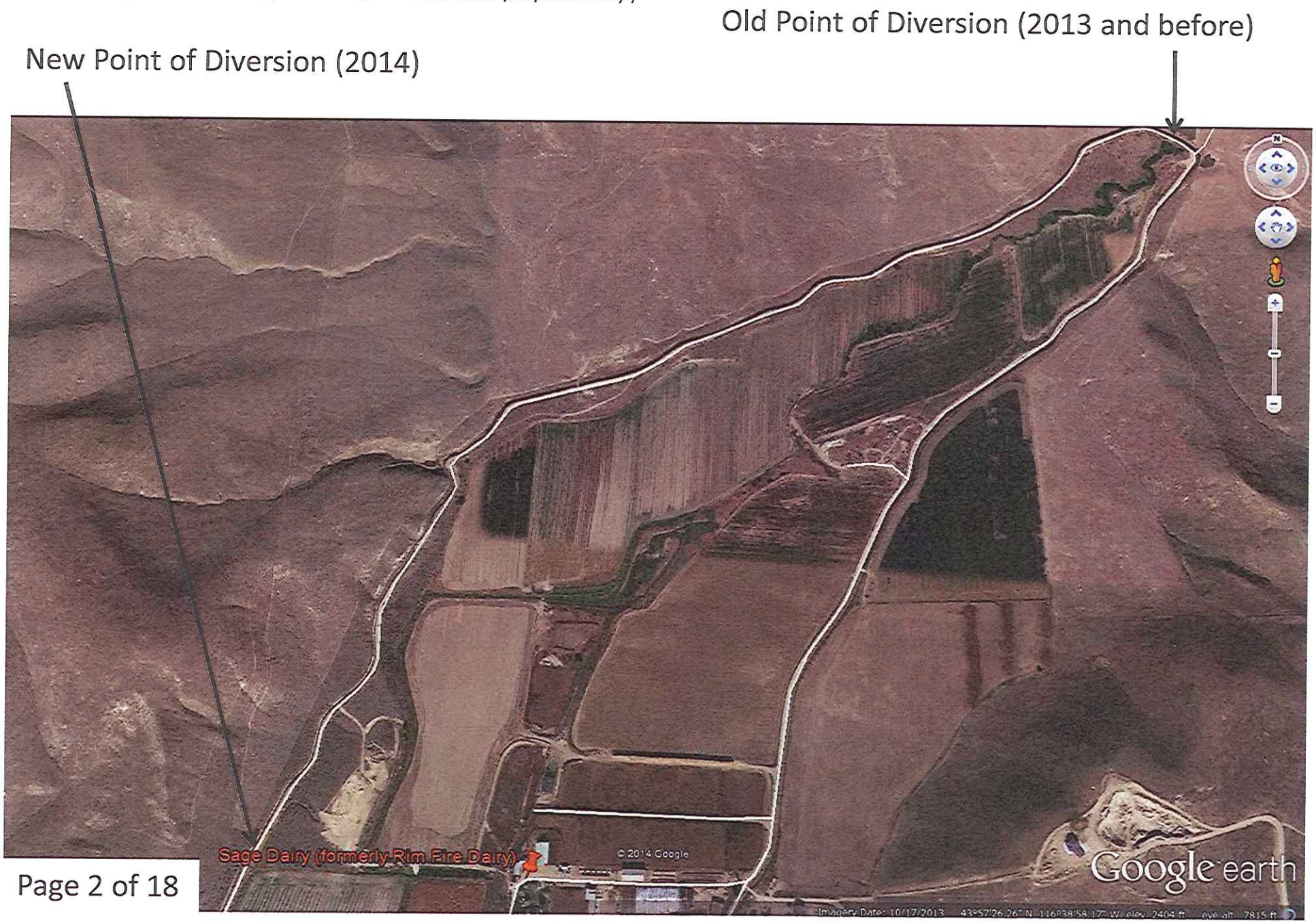
The berm between the irrigation tail water pond and the irrigation water (see pages 11 and 12 of the photos) is approximately 25 feet wide. Mr. Jones also stated that an impermeable liner was placed vertically in the berm to prevent water from the tail water pond leaching into the irrigation water. The top of the newly constructed berm is about 420 feet long and 14 to 18 feet wide. Measurements were taken using a measuring wheel. The north side of the berm slope is approximately a 3 to 1 slope with the south slope varying from a 1:1 to 2:1.

John P Bilderback 05/01/2014

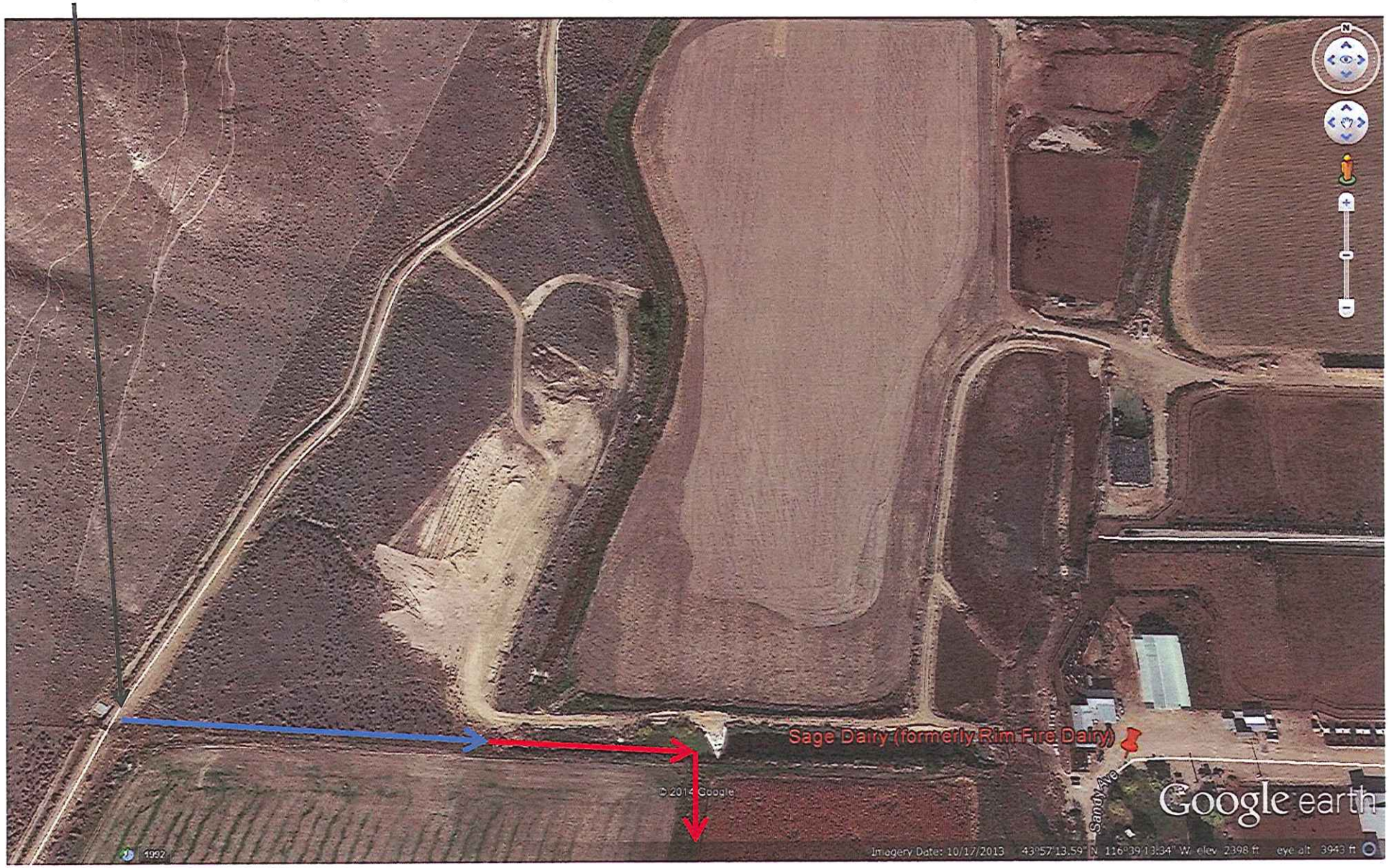
TERRY JONES
CONSTRUCTION AND SITE PHOTOS

Photos Taken April 21, 2014 by Hilary Collinsworth

Canal company has blocked old point of diversion with moveable wood wier boards, but has left the structure in place for future emergency situations. (Locations are approximate; for illustration purposes only.)



New Point of Diversion (2014); Blue Arrow Indicates water flow direction from the point of diversion and buried pipe for water conveyance. Red line indicates open channel water flow.



New Point of Diversion (2014)

One can also see where the buried pipe was placed (disturbed earth)

New end of field berm

Tail water pond (3rd party controlled)

Dairy waste pond (Dairy controlled)

~8 inch Pipe goes through the berm to collect the field runoff

Newly constructed point of diversion

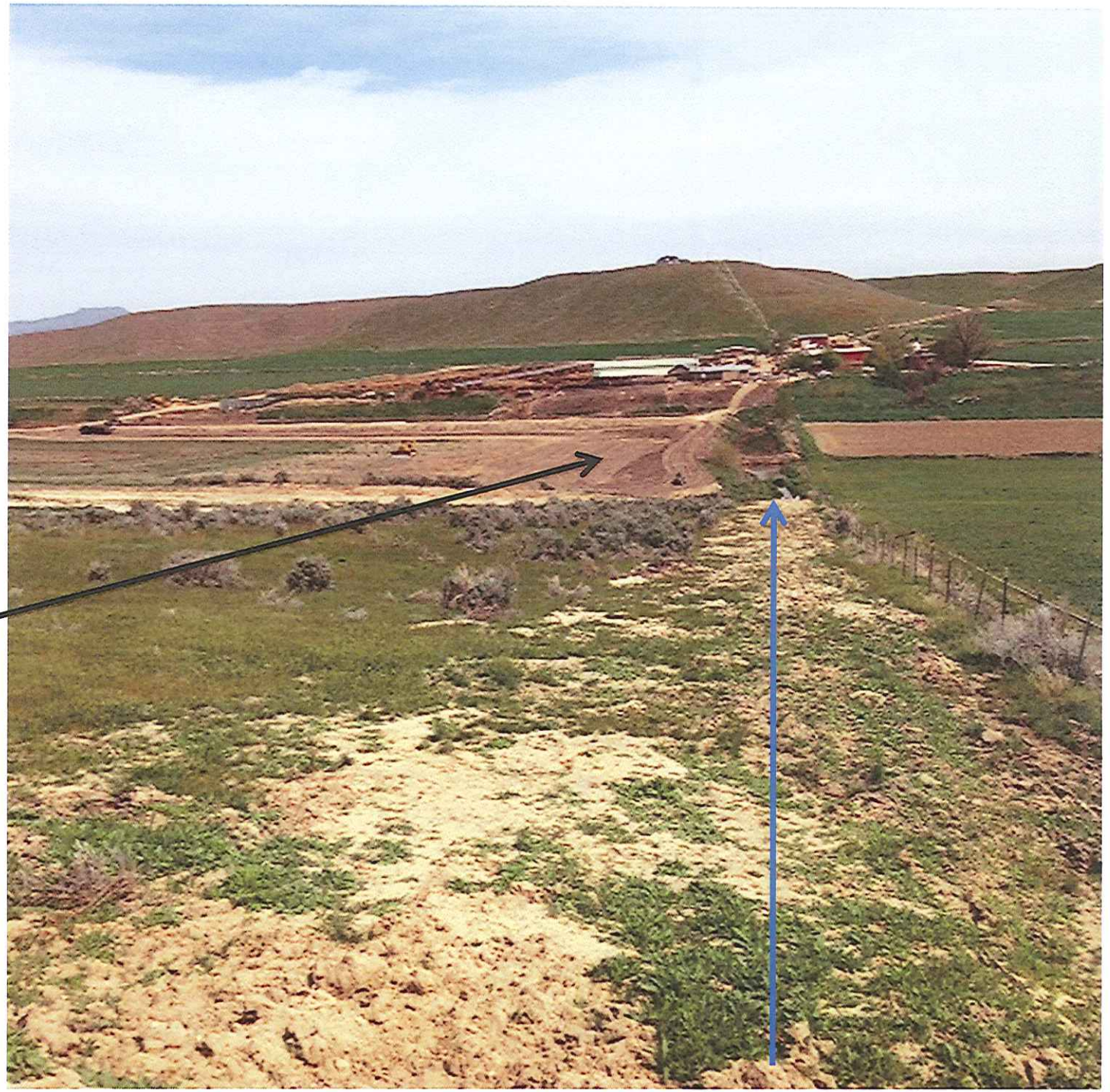
Orange line is canal flow.

Blue line is irrigation water flowing (in a pipe) onto Jones' property

Another view of the newly constructed diversion

Looking east from the new point of diversion

Blue line is water flow; in new buried pipe. Irrigation water exits (see next 2 photos for the concrete exit structure)



Shippy's constructed a new berm for Terry Jones Sr to help contain and collect all field runoff. Per Jones Sr, NRCS helped with the sizing of this berm structure

From the point of diversion at the canal, the water is piped, and then exists at this location. New concrete structure to prevent help hydraulic jump scouring.

Another view, looking east

Berm that separates the irrigation tail water pond and the irrigation canal water (see next two pictures)

Irrigation Tail Water Pond; tail water that is in the pond is from recent land application to triticale per Terry Jones, Sr.

Irrigation water from the canal (red line shows flow direction)

Another view, looking south. Canal water flows south through Kipper's property.

Another view, looking approximately west-southwest of the newly constructed berming.

Channel (see next photo) created to divert runoff into this bermed containment/collection area

Close-up of the end of the diversion ditch.

Close-up of the beginning of the diversion ditch.

The facility will be able to collect all the runoff water from land application.

Photo of the berm.

John Bilderback, pictured. Height 6'1"

Looking west. Photo of the berm.

John Bilderback, pictured. Height 6'1"

Note: 3 foot long Soil Penetrometer is pushed all the way into the ground, noting that compaction is not adequate to meet dairy waste rules. If this area will be utilized in the future for dairy waste manure or water storage, the area would need to be compacted and the soils would have to be tested to ensure it would meet IDAPA 02.04.14 Rules Governing Dairy Waste